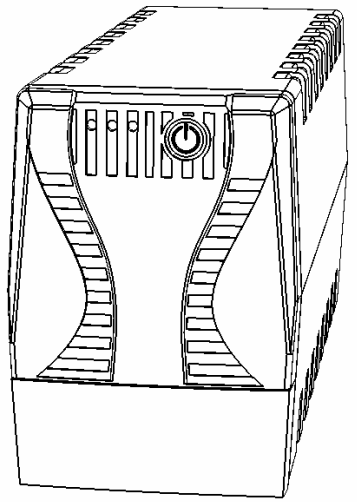
Line Interactive

UPS

USER'S MANUAL



CAUTION: Risk of electric shock. Do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
CAUTION: To reduce the risk of electric shock, use only indoors and in dry locations.
CAUTION: Risk of electric shock.
Disconnect unit before servicing.
CAUTION: Risk of electric shock. Battery circuit is not isolated from AC input. Hazardous voltage may exist between terminals and ground. Disconnect unit before servicing battery.

1.Overview
1-1 Introduction
Line Interactive UPS offer excellent protection for PC, Networking workstation and small internet-working Devices. The system built in line conditioning known as AVR (Auto-Voltage regulation) the ideal device to protect your PC against all power

2. INSTALLATION AND OPERATION
2-1. Installation
The following steps explain how to install the UPS to your PC.
Step 1. Assure AC power source output voltage is in the UPS Require range which specify on the rear panel.
Step 2. Plug the UPS power cord into a wall outlet or other Power source.
Step 3. Plug in the personal computer (PC) into the UPS output.
Step 4. Start the UPS by pressing the ON/OFF button for 1 seconds.Green led indicator illuminate indicating the UPS is now on. You may now turn on your computer.
Step 5. Cold (DC) start UPS By Pressing ON/OFF button for 4 seconds. The red led indicator illuminate indicating the DC power is now available. When AC power recovered the green led indicator illuminates indicating that AC power is normal.
Step 6. Shutdown the UPS by pressing ON/OFF button for 6 seconds Till Red LED indicator turn off.

3. LED and Alarm Indication:
3-1. LED indication

GREEN	YELLOW FLASHING	RED/GREEN CONSTANT
AC power mode (UPS ON)	Flashing 10 sec UPS on Battery mode	Overload

3-2. Alarm indication

Beep every 10 secs	Beep every 0.5 sec	Beep ever 1 sec	Beep continuously
UPS on battery mode	Battery Low	Overload warning	Overload cut-off warning

Disturbance including power blackouts, Surge and Sag.
With Micro-Processor inside the **UPS** not just work hard but work smart and to Protect your document save into PC.

4. CAUTION
Although your UPS has been designed and manufacturer to assure personal safety, improper use can result in electrical shock. To assure safety, please observe the following rules:

1. Turn off and unplug your UPS before cleaning. Do not use liquid or aerosol cleaner. A dry cloth is dust from the surface of your UPS.
2. Do not install or operate your UPS in near water.
3. Do not place UPS on an unstable cart, stand or table.
4. Do not place UPS under direct sunlight or close to heat emitting source.
5. Do not place UPS power cord in any area where it may get damaged by heavy objects.
6. Do not connect UPS to home appliance **e.g. hairdryer, fan etc.**
7. Do not connect UPS to **Laser printer.**
8. If you store the UPS or UPS does not operate for a long period, recharge the battery every month by starting the UPS for 8 hours.
9. Replace the battery with the same number and type of batteries as originally installed in the UPS. The UPS must be unplugged from the AC power source before replacing batteries (this operation require specialistic staff).

5. TROUBLE SHOOTING

Situation	Check items	Solution
UPS power is on but UPS does not start.	The line cord is not connected Or not plugged in. The wall outlet is dead	Connect the line cord to the UPS and plug the UPS into a working outlet.
Start UPS but red LED flash.	Low battery power because of long term AC power failure.	When AC power in normal condition Execute battery charge for 8 hours.
UPS does not provide the expected back-up time.	The battery may be low power because 1. Long-term storage 2. Overload 3. End of battery life	1. Charge the battery for 8 hours 2. Turn off connected applications 3. Replace the battery
Red LED illuminates and alarm Continuonos beeping.	UPS fault	Unplug the UPS from wall outlet.

6. SPECIFICATIONS:

INPUT	Nominal Voltage	120VAC / 220VAC		
	Voltage Range	80VAC~145VAC / 160VAC~290VAC		
	Frequency	50 Hz / 60 Hz		
OUTPUT	Voltage (Batt. Mode)	+/-10%		
	Frequency	Same as Input		
	Built-in AVR	Two Boost & 1 Buck		
	Waveform	Modified Sine Wave		
	Transfer Time	Typical 2-6 ms		
	Outlets	4 NEMA 5-15R **(option: 6 NEMA)**; 4 IEC; 2 Universal; 2 Schuko		
BATTERY	Bttery Type & Number	12V 4.5 Ah x 1	12V 7 Ah x 1	12V 9 Ah x 1
	Typical Recharge Time	4-6 hours up to 90% capacity		
INDICATORS	AC Mode	Green Lighting		
	Battery Mode	Yellow Flashing		
	Fault	Red Lighting		
	Smart Charging when UPS is off	Green Flashing		
ALARM	Battery Mode	Sounding every 12 seconds		
	Low Battery	Sounding every 2 seconds		
	Fault	Continuously sounding		
PROTECTION		Overload, AC Fuse, Short Circuit and Overcharge protection		
PHYSICAL	Dimension, D X W X H (mm)	280 x 100 x 140		
	Net Weight (kgs)	3.5kgs	4.5kgs	4.8kgs
ENVIRONMENT	Altitude	< 5000 Meter		
	Temperature	0°C ~ 40°C		
	Humidity	0% ~ 90% (Non-Condensing)		
	Audible Noise	< 40dB		